IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kim et al.

Serial No.:

Unassigned

Filed:

September 24, 2003

For:

APPARATUS AND METHOD OF USING THIN FILM MATERIAL AS DIFFUSION BARRIER FOR

METALLIZATION

METALLIZATION

Art Unit:

Unassigned

Examiner:

Unassigned

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97

Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 Alexandria, VA 22313

Dear Sir:

Applicant hereby brings to the attention of the Examiner the documents noted on the accompanying Form PTO-1449. This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action.

It is respectfully requested that the information cited herein be expressly considered during the prosecution of this application and made of record on any patent to issue therefrom.

Kim *et al.* Information Disclosure Statement

No fee is believed due with this mailing. The Commissioner is hereby authorized to charge any cost that may be due to Deposit Account No. 17-0055.

Respectfully submitted,

QUARLES & BRADY STREICH LANG, LLP

By:

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Substitute for form 1449/PTO	Complete if Known		
···	Application Number	Unassigned	
INFORMATION DISCLOSURE	Filing Date	September 24, 2003	
	First Named Inventor	Kim et al.	
STATEMENT BY APPLICANT	Art Unit		
(Use as many sheets as necessary)	Examiner Name		
Sheet 1 of 1	Attorney Docket Number	130588.91477	

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Α	^{US-} 5,668,054	09/16/97	Sun et al.	
	В	^{US-} 5,698,337	12/16/97	Nitshke et al.	
	С	^{US-} 6.140.231	10/31/00	Lin et al.	
	D	^{US-} 6,271,592	08/07/01	Kim et al.	
-	Е	^{US-} 6,331,484	12/18/01	Bhowmik et al.	
	F	^{US-} 6.359.160	03/19/02	Sun et al.	
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Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	NONE			
		No. 1 Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	No. 1 Date MM-DD-YYYY Country Code ³ Number ⁴ Kind Code ⁵ (if known)	No.¹ Date MM-DD-YYYY Country Code³¬Number⁴¬Kind Code⁵ (if known) Applicant of Cited Document

Examiner	Date	
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Translation is attached.

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